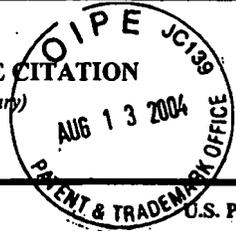


INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)



Docket Number (Optional) 3004-9US	Application Number USSN 10/760,493
Applicant(s) Bachmann, Brian O.	
Filing Date January 21, 2004	Group Art Unit

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/TM/	A1	US 4,452,775	06.05.84	Syntex (USA) Inc.	A61K	9/26	
/TM/	A2	US 5,039,660	08.13.91	Endocon Inc.	C07K	17/08	
/TM/	A3	US 3,854,480	12.17.74	Alza Corporation	A61M	5/00	
/TM/	A4	US 6,361,974	03.26.02	Diversa Corporation	C12P	21/06	
/TM/	A5	US 6,372,497	04.16.02	Maxygen Inc.	C12N	15/00	
/TM/	A6	US 4,946,778	08.07.90	Genex Corporation	C12N	15/00	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
/TM/	B1	WO 01/34816	05.17.01	WO	C12N	15/76		
/TM/	B2	WO 03/062458	07.31.03	WO	C12Q	1/02		
/TM/	B3	CA 2,352,451	07.24.01	CA	C12Q	1/68		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

/TM/	C1	Sakuda et al., Tetrahedron Letters, (1995) vol.36, no.16, pp.2777-2780 "Linearmycin A, a novel linear polyene antibiotic"
/TM/	C2	Sakuda et al., J Chem. Soc. Perk. Trans., (1996) 1, pp.2315-2319 "Novel linear polyene antibiotics: linearmycins"

EXAMINER /Traviss Mcintosh III/ (05/20/2007)	DATE CONSIDERED 05/20/2007
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/TM/	C3	Pawlack et al., Journal of Antibiotics, (1980) vol.33 no.9, pp.989-997 "The structure of lienomycin, a pentaene macrolide antitumor antibiotic"
/TM/	C4	Berge SM et al., Journal of Pharmaceutical Sciences, (1977) vol.66 no.1, pp.1-19 "Pharmaceutical Salts"
/TM/	C5	Goodfellow, Bergey's manual of systematic bacteriology, vol.4, pp.2322-2339 "Suprageneric classification of actinomycetes"
/TM/	C6	Embley et al., Annu. Rev. Microbiol., (1994) vol.48, pp.257-289 "The molecular phylogeny and systematics of the actinomycetes"
/TM/	C7	Shah, J. Antibiotics (Tokyo), (2000) vol.53, no.5, pp.502-508 "Cloning, characterization and heterologous expression of a polyketide synthase and P-450 oxidase involved in the biosynthesis of the antibiotic oleandomycin"
/TM/	C8	Rangaswamy et al., Proc. Natl. Acad. Sci. USA, (1998) vol.95, pp.15469-15474 "Biosynthesis of the Pseudomonas polyketide coronafacic acid requires monofunctional and multifunctional polyketide synthase proteins"
/TM/	C9	Kakavas et al., J. Bacteriol., (1997) vol.179, no.23, pp.7515-7522 "Free in PMC Identification and characterization of the niddamycin polyketide synthase genes from Streptomyces caelestis."
/TM/	C10	Brautaset et al., Chem. Biol., (2000) vol.7, no.6, pp.395-403 "Biosynthesis of the polyene antifungal antibiotic nystatin in Streptomyces noursei ATCC 11455: analysis of the gene cluster and deduction of the biosynthetic pathway"
/TM/	C11	Fisher et al., Structure Fold Des., (2000) vol.8, no.4, pp.339-347 "The X-ray structure of Brassica napus beta-keto acyl carrier protein reductase and its implications for substrate binding and catalysis"
/TM/	C12	Stryer, Biochemistry 3rd edition, (1998) W.H. Freeman and Co., New York, pp.752-754
/TM/	C13	Altschul et al., J. Mol. Biol., (1990) vol.215, no.3, pp.403-410 "Basic local alignment search tool"
/TM/	C14	Hopwood, Chem. Rev., (1997) vol.97, no.7, pp.2465-2497 "Genetic Contributions to Understanding Polyketide Synthases"

EXAMINER /Traviss Mcintosh III/ (05/20/2007)	DATE CONSIDERED 05/20/2007
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/TM/	C15	McDaniel et al., Proc. Natl. Acad. Sci. USA, (1999) vol.96, pp.18646-18651 Multiple genetic modifications of the erythromycin polyketide synthase to produce a library of novel "unnatural" natural products.
/TM/	C16	Reid et al., Biochemistry, (2003) vol.42, no.1, pp.72-79 "Abstract A model of structure and catalysis for ketoreductase domains in modular polyketide synthases"
/TM/	C17	Oppermann, Udo CT et al., Biochemistry, (1997) vol.36(1), pp.34-40 "Active site directed mutagenesis of 3/17-hydroxysteroid dehydrogenase establishes differential effects on short-chain dehydrogenase/reductase reactions"
/TM/	C18	Zoller et al., Methods in Enzymol, (1983) vol.100, p.468-500 "Oligonucleotide-directed mutagenesis of DNA fragments cloned into M13 vectors"
/TM/	C19	Dalbie-McFarland G et al., Proc. Natl. Acad. Sci. USA (1982) vol.79, no.21, pp. 6409-13 "Oligonucleotide-directed mutagenesis as a general and powerful method for studies of protein function"
/TM/	C20	Oliynyk et al., Chem. Biol., (1996) vol.3 no.10, pp.833-839 "A hybrid modular polyketide synthase obtained by domain swapping"
/TM/	C21	Hans et al., J. Am. Chem. Soc., (2003) vol.125 no.18, pp.5366-74 "Mechanistic analysis of acyl transferase domain exchange in polyketide synthase modules"
/TM/	C22	Kao et al., Science, (1994) vol.265(5171), pp.509-512 "Abstract Engineered biosynthesis of a complete macrolactone in a heterologous host"
/TM/	C23	Oh, SH; Chater KF, Journal of Bacteriology, (1997) vol.179, no.1, pp.122-127 "Denaturation of circular or linear DNA facilitates targeted integrative transformation of Streptomyces coelicolor A3(2): possible relevance to other organisms"
/TM/	C24	Arrowsmith et al., Mol. Gen. Genet., (1992) vol.234, no.2, pp.254-264 "Characterisation of actI-homologous DNA encoding polyketide synthase genes from the monensin producer Streptomyces cinnamonensis"
/TM/	C25	Paradkar et al., Appl. Environ. Microbiol., (2001) vol.67, no.5, pp.2292-2297 "Applications of gene replacement technology to Streptomyces clavuligerus strain development for clavulanic acid production"
/TM/	C26	Blanco et al., Mol. Gen. Genet., (2000) vol.262, no.6, pp.991-1000 "Characterization of two glycosyltransferases involved in early glycosylation steps during biosynthesis of the antitumor polyketide mithramycin by Streptomyces argillaceus"

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/TM/	C27	Chen et al., Gene, (2001) vol.263, no.1-2, pp.255-64 "The Strptomycetes venezuelae pika V gene contains a transcription unit essential for expression of enzymes involved in glycosylation of narbonolide and 10-deoxymethynolide"
/TM/	C28	Schaffner CP, Mavrolide Antibiotics: Chemistry, biology and practice, S. Omura, ed. Academic Press (1984) p.491-92 "Polyene microlides in clinical practice"
/TM/	C29	Schaffner CP and Gordon HW, Proc. Natl. Acad. Sci. USA (1968) vol.61, no.1, p.36 "The hypocholesterolemic activity of orally administered polyene macrolides"
/TM/	C30	Carrillo H et al., SIAM J. Applied Math., (1988) vol.48, no.5, pp.1073-1082 "The multiple sequence alignment problem in biology"
/TM/	C31	Gluzman Y, Cell, (1981) vol.23, no.1, pp.175-82 "SV40-transformed simian cells support the replication of early SV40 mutants"
/TM/	C32	Leung DW et al., Technique, (1989) vol.1, pp.11-15 "A method for random mutagenesis of a defined DNA segment using a modified polymerase chain reaction"
/TM/	C33	Caldwell RC et al., PCR Methods Applic., (1992) vol.2, pp.28-33 "Randomization of genes by PCR mutagenesis"
/TM/	C34	Reidharr-Olson, JF et al., Science, (1988) vol.241 (4861), pp.53-57 "Combinatorial cassette mutagenesis as a probe of the informational content of protein sequences"
/TM/	C35	Kholer et al., Nature, (1975) vol.256, pp.495-497 "Continuous cultures of fused cells secreting antibody of predefined specificity"
/TM/	C36	Kozbor et al., Immunology Today, (1983) vol.4, no.3, pp.72-79 "The production of monoclonal antibodies from human lymphocytes"
/TM/	C37	Cole et al., Monoclonal Antibodies and Cancer Therapy, Alan R. Liss Inc., (1985) pp.77-96 "The EBV-hybridoma technique and its application to human lung cancer"
/TM/	C38	Wood T., Methods in Enzymology, (1988) vol.160, pp.87-116 "Methods for measuring Cellulase Activities"

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/TM/	C39	Katz, Chem. Rev., (1997) vol.97, no.7, pp.2557-2575 "Manipulation of Modular Polyketide Synthases"	
/TM/	C40	Zazopoulos et al., Nature Biotechnology, (2003) vol.21, pp.187-190 "A genomics-guided approach for discovering and expressing cryptic metabolic pathways"	
/TM/	C41	Grote R, Zecek A., J. Antibiot., (1988) vol.41, pp.1178-95 "Colabomycin A from Streptomyces griseoflavus Tue 2880"	
/TM/	C42	Osada et al., J. Antibiot., (1991) vol.44, pp.1463-6 "Enopeptin-A from Streptomyces griseus"	
/TM/	C43	He H et al., J. Antibiot., (2000) vol.53, no.2, pp.191-195 "Isolation and structural elucidation of AC326-alpha, a new member of the moenomycin group"	
/TM/	C44	Wong GK et al., J Antibiotics, (1998) vol.51, no.5, pp.487-491 "Antifungal activities of rapamycin and its derivatives, prolyrapamycin, 32-desmethylrapamycin, and 32-desmethoxyrapamycin"	
/TM/	C45	Arikan S et al., Antimicrobial Agents and Chemotherapy, (2003) vol.47, no.8, pp.2640-2643 "Comparison of two methods and three end points in determination of in vitro activity of micafungin against Aspergillus spp."	
/TM/	C46	Dubols N et al., Microbiology, (1998) vol.144, pp.2299-2310 "Antifungal activities of rapamycin and its derivatives, prolyrapamycin, 32-desmethylrapamycin, and 32-desmethoxyrapamycin"	
/TM/	C47	Fisher H. et al., Proceedings of the Society for Experimental Biology and Medicine, (1974) vol.145, pp.836-839 "Effect of candidin on plasma cholesterol and avian atherosclerosis."	
/TM/	C48	Pagliano FM, Arch Sci Med (Torino), (1979) vol.136, pp.303-308 "Correction of hyperdyslipidemia using polyene-structure substances. Controlled clinical trial"	
/TM/	C49	Barbaro A. et al., Archivio per Scienze Mediche, (1980) vol.137, pp.211-216 "Action of a polyene macrolide on hyperdyslipidaemic disorders"	
/TM/	C50	Singhal AK et al, Lipids, (1981) vol.16, p.423-426 "C.P. Effect of candidacin on cholesterol and bile acid metabolism in the rat"	
EXAMINER /Traviss Mcintosh III/ (05/20/2007)		DATE CONSIDERED 05/20/2007	
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/TM/	C51	Staprans I et al., Arteriosclerosis, Thrombosis and Vascular Biology, (1998) vol.18, pp.977-983 "Oxidized cholesterol in the diet accelerates the development of aortic atherosclerosis in cholesterol-fed rabbits"
/TM/	C52	Thiery J et al., Arteriosclerosis, Thrombosis and Vascular Biology, (1995) vol.15, pp.1181-1188 "Low atherosclerotic response of a strain of rabbits to diet-induced hypercholesterolemia"
/TM/	C53	Chen S. et al, Chemistry & Biology, (2003) vol.10, pp.1065-1076 "Organizational and mutational analysis of a complete FR-008/Candididin gene cluster encoding a structurally related polyene complex"
/TM/	C54	Micklewright P.F., Trigger D.J., J. Pharm. Pharmac., (1974) vol.26 suppl., pp.108P-109P "The effect of candididin on exogenous cholesterol absorption in small laboratory animals"
/TM/	C55	Worthen, D.R. et al., Drug Development and Industrial Pharmacy, (2001) vol.27, no.4, pp.277-286 "Methods for the recovery and purification of polyene antifungals"
/TM/	C56	Staunton, J., Weissman, K.J., Nat. Prod. Rep., (2001) vol.18, pp.380-416 "Polyene biosynthesis: a millennium review"

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